



# EVERFOCUS

1/3" 560 TVL Pure Vision Lens  
Integrated Color Camera  
Operation Instructions

Model No. **EI350**

Please read this manual first for correct installation and operation. This manual should be retained for future reference. The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

## PRECAUTIONS

**1. Do not install the camera near electric or magnetic fields.**

Install the camera away from TV, radio transmitter, magnet, electric motor, transformer, audio speakers since the magnetic fields generate from above devices will distort the video images.

**2. Never disassemble the camera nor put impurities in it.**

Disassembly or impurities may result in trouble or fire.

**3. Never face the camera toward the sun.**

Direct sunlight or severe ray may cause fatal damage to sensor and internal circuit.

**4. Keep the power cord away from water and liquid.**

Touching the wet power cord may result in electric shock.

**5. Never install the camera in areas exposed to water, oil or gas.**

Water, oil or gas may result in failure, electric shock or fire.

**6. Cleaning**

Do not touch the surface of sensor by hand directly. Use a soft cloth to remove the dirt from the camera body. Use lens tissue or a cotton swab and ethanol to clean the sensor and the

camera lens.

**7. Do not operate the camera beyond the specified temperature, humidity or power source ratings.**

Use the camera at temperatures within 0°C~50°C (32°F ~ 122°F) and humidity between 20%~ 80%. The input power source is 12VDC/24VAC.

## **PREFACE**

The camera features a high performance, high-resolution 1/3" color CCD processor and built-in vari-focal lens, which provides excellent picture quality, flexibility and cost savings. A mounting bracket is included with every camera making it one of the most complete and easy to install camera packages on the market.

## **FEATURES**

- 1/3" SONY Super HAD with low light sensitivity of 0.5 lux/F=1.2
- Industry leading super high-res. with 560 TVL
- Revolutionary integrated 10-bit Digital Signal Processor (DSP) delivers excellent picture quality an sharp color images
- Intelligent backlight compensation
- Utilizes Pure Vision Technology

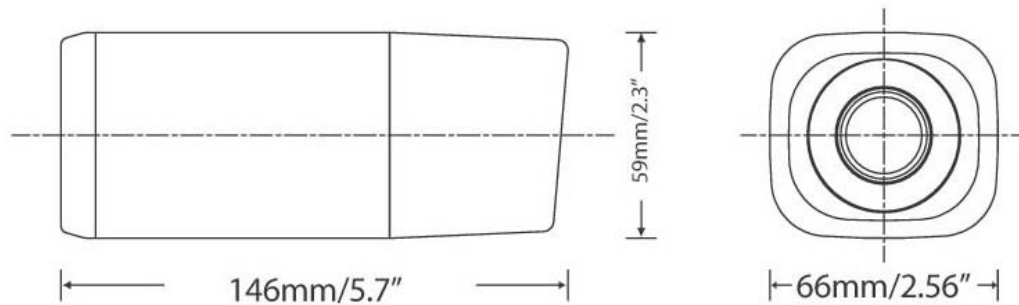
## **PACKAGE CONTENTS**

- Camera Unit x 1
- Mounting Bracket x 1
- Manual x 1

## SPECIFICATIONS

Pickup Device	1/3" SONY Super HAD CCD
Video Format	NTSC or PAL
Scanning System	NTSC: 525 TV lines, 60 fields/sec PAL: 625 TV lines, 50 fields/sec
Picture Elements	768 x 494(NTSC) ; 752 x 582(PAL)
Horizontal Resolution	560TVL
Sensitivity	0.5Lux/F=1.2
S/N Ratio	Over 48dB(AGC off)
Electronic Shutter	1/50(1/60)~1/100,000
Lens Type	Vari-focal lens, Auto Iris f=3.8~9.5mm, F=1.2
Back Light Comp.	ON/OFF Switch
Auto Gain Control	ON/OFF Switch
Flickerless	ON/OFF Switch
Auto White Balance	Yes
Gamma Correction	0.45
Video Output	BNC 1.0Vp-p , 75ohm
Sync. Mode	Line Lock/Internal Sync
Power Source	12VDC/24VAC
Power Consumption	24VAC: 7.5VA max. 12VDC: 4.5W max.
Dimensions	66mm(W) x 59mm(H) x 146mm(D); 2.56" (W) x 2.3"(H) x 5.7"(D)
Weight	0.4kg ; 0.9lbs
Mounting Bracket:	Aluminum, Dimension 145 (H) x 56.5 (O.D.) mm / 5.7"(H) x 2.2(O.D); Max Load 3 kgs
Operating Temperature	0°C~50°C ; 32°F~122°F(20%~80% Humidity)
Service Kit:	Mounting bracket x 1 pcs
Certifications	FCC/CE

## DIMENSIONS



(Unit:mm/inch)

## USING SPECIAL FEATURES

### **Lens adjustment**

You may adjust the focus and zoom of the lens to bring the object in focus.

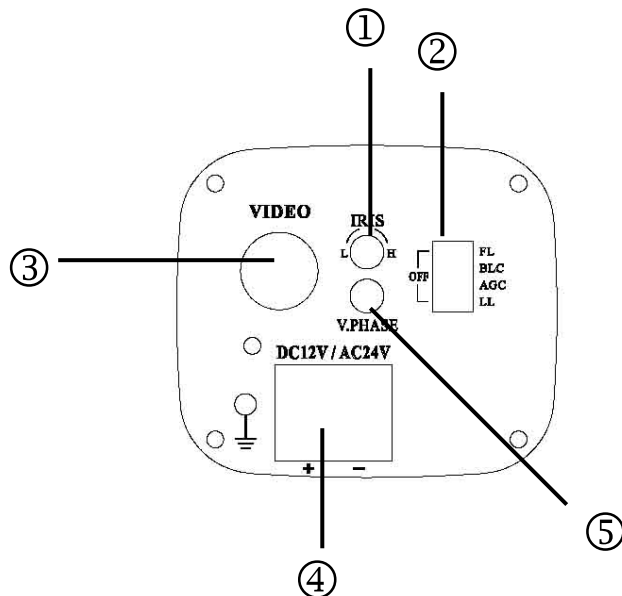
This lens has two focal distances. The change of Tele/Wide can be done with zooming. You could switch focus between Tele/Wide, by re-adjusting focusing once again.

### **Back Light Compensation**

When BLC is turned on, the AGC, ES or IRIS operating point is determined by averaging over the center area instead of entire field-of-view, so that a dimly-lit foreground object at center area can be clearly distinguished from brightly-lit backgrounds.

BLC should not be used unless it is needed to compensate for back-lit.

## **Back Panel**



1. Auto IRIS adjustment
2. Function switcher

### **Flickerless On/Off**

When picture flicker fiercely, turn FL on, then the camera will stabilize the speed of electronic shutter at 1/100(NTSC) or 1/120(PAL) automatically, and reduce the flicker immediately.

### **BLC (Back Light Compensation) Normal/On**

When BLC is turned on, the AGC, ES and IRIS operating points are determined by averaging over the center area instead of entire field-of-view, so that a dimly-lit foreground object at center area can be clearly distinguished from brightly-lit backgrounds.

BLC should not be used unless it is needed to compensate for back-lit. The default setting is Normal.

### **AGC (Automatic Gain Control) Off/On**

AGC ON: The sensitivity increases automatically when light is low.

AGC OFF: A low-noise picture is obtained under a low light condition.

The default setting is ON.

### LL (Line-Lock) Off/On

To select the sync mode between Internal Sync.(LL off) and Line-Lock (LL on).

Set the line-lock off, the camera will synchronize to the internal time base. Set the line-lock on, the camera's vertical synchronization can be driven by the AC signal in the power lines. The default setting is Off.

**Note:** Line-Lock sync mode operation is possible only when used with an AC power source; it is not possible with a DC power source.

3. Video output connector
4. 12VDC/24VAC input terminal
5. V Phase adjustment

## **INSTALLATION**

1. Connect the video output of the camera to a color monitor or other video device through a 75 ohm type coaxial cable with BNC female connector at camera end.
2. Plug the power cord to the outlet. Power indicator LED should light if the power source is properly connected.
3. Remove the lens cover cap from the top of the camera for adjusting the vari-focal lens.
4. Once the image appears on the monitor, adjust the focus and diaphragm of the lens to obtain the best picture.
5. Mount the camera on the mounting bracket by using the mounting hole on the top and bottom of camera casing.

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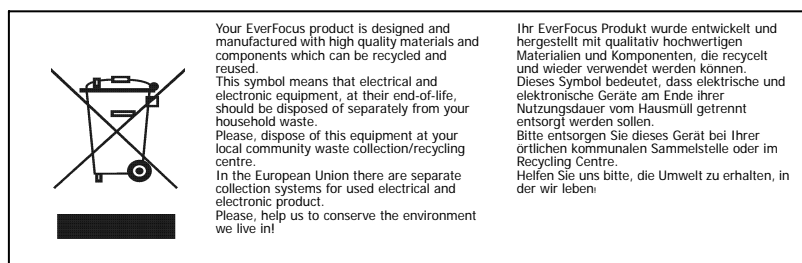
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